



Atty. Docket No. 1596C9	Serial No. 09/78,575
Applicant: Ernest Lawton et al.	
Filing Date 11/03/00	Group 1016 Unit 1016

U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA	2,740,239	04/03/56	Ball et al.	51	185	
AB	2,793,478	05/28/57	Rohowetz et al.	51	188	
AC	2,797,469	07/12/57	Kahn et al.	28	80	
AD	3,146,560	09/01/64	Hurst et al.	51	188	
AE	3,556,448	01/19/71	Dobbs	248	119	
AF	3,664,855	05/23/72	Morrison et al.	106	212	
AG	3,688,453	08/05/72	Legacy et al.	51	400	
AH	3,709,721	01/09/73	King	117	104	
AI	4,009,317	02/22/77	Chase et al.	428	378	
AJ	4,118,528	10/03/78	Lowry	428	65	
AK	4,168,345	09/18/79	de Massey et al.	428	441	

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
AL	2-160944	20-06-90	Japan (Abstract)			
AM	WO 97/35457	09/25/97	PCT			
AN	2,072,121	07/26/91	Russia		X	
AO	468 476 A2	07/24/91	EPO			
AP	53-143582	12/14/78	Japan		x	

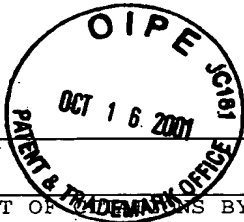
OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	COMPENDEX-EIX99284673861; J. Journal Article; "Glass Yarn: Sized For Better PCB Fabrication And Properties"; NOVICH, Bruce E.; <u>PRINTED CIRCUIT FABRICATION</u> ; Vol.22, pg. 52-53
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Examiner	Date Considered 5/02
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



LIST OF PATENTS BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. 1596C9	Serial No. 89/705,575
	Applicant: Ernest Lawton et al.	
	Filing Date 11/03/00	Group Art. Unit 1016

U.S. PATENT DOCUMENTS

Exam. Init		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	4,228,514	10/14/80	Weiss	364	475	
	AB	4,379,798	04/12/83	Palmer	428	113	
	AC	4,383,785	05/17/83	Rice	409	131	
	AD	4,615,933	10/07/86	Traut	428	252	
	AE	4,643,936	02/17/87	Eidal	428	214	
	AF	4,781,495	11/01/88	Hatch	408	1	
	AG	4,820,575	04/11/89	Kolzer	428	240	
	AH	4,826,365	05/02/89	White	408	144	
	AI	4,858,479	08/22/89	Voss	73	865	
	AJ	4,863,787	09/05/89	Gawin	428	240	
	AK	4,872,787	10/10/89	Arai	408	1	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	AL	156587	10.09.82	Fuji				x
	AM	61-213115	22.09.86	Japan			x	
	AN	1,121,361	15.05.89	Japan (Abstract)				
	AO	63,224,940	20.09.88	Japan (Abstract)				
	AP	1,202,442	15.08.89	Japan (Abstract)				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner	Date Considered 5/02
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



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LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. 1596C9	Serial No. 09/705,575
	Applicant: Ernest Lawton et al.	
	Filing Date 11/03/00	Group Art. Unit 1016

U.S. PATENT DOCUMENTS

AA	4,894,105	01/16/90	Dyksterhouse et al.	156	181	
AB	4,913,740	04/03/90	Frederickson	106	1.11	
AC	4,917,547	04/17/90	Frederickson	408	1	
AD	4,929,370	05/29/90	Hatch et al.	252	12.2	
AE	4,935,294	06/19/90	Misevich et al.	422	246	
AF	4,943,606	07/24/90	Inoue et al.	523	457	
AG	4,960,634	10/02/90	Boyko et al.	428	113	
AH	4,997,702	03/05/91	Gazit et al.	428	283	
AI	5,005,978	04/09/91	Skunes et al.	365	372	
AJ	5,025,045	06/18/91	Gawin et al.	523	113	
AK	5,028,984	07/02/91	Ameen et al.	357	72	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation	
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AL	63,270,106	08.11.88	Japan (Abstract)				
AM	1,152,138	14.06.89	Japan (Abstract)				
AN	1,222,950	06.09.89	Japan (Abstract)				
AO	2,160,944	20.06.90	Japan (Abstract)				
AP	63-75856	04.10.89	Japan			X	

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C9	Serial No. 09/05,575
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Applicant: Ernest Lawton et al.
Filing Date 11/03/00	Group A, Unit 1016/1700

U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
<i>[Signature]</i>	AA	5,047,279	10/10/91	Nasu et al.	428	156	
	AB	5,082,402	01/21/92	Gaku et al.	408	1	
	AC	5,126,532	06/30/92	Inagwa et al.219	219	121	
	AD	5,151,146	09/29/92	Green	156	177	
	AE	5,281,441	01/25/94	Kasal et al.	3	12	
	AF	5,284,807	02/08/94	Komori et al.	501	35	
	AG	5,324,766	06/28/94	Ikejiri et al.	524	451	
	AH	5,326,410	07/05/94	Boyles	156	98	
	AI	5,336,024	08/09/94	Nakagawa et al.	408	1	
<i>[Signature]</i>	AJ	5,358,741	10/25/01	Gat	427	249	
	AK	5,364,657	11/15/94	Throne	427	185	

FOREIGN PATENT DOCUMENTS

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<i>[Signature]</i>	AL	3-115,332	16.05.91	Japan			X	
	AM	2,251,651	09.10.91	Japan (Abstract)			X	
	AN	3,214,685	19.09.91	Japan (Abstract)				
	AO	3,212,987	18.09.91	Japan (Abstract)				
<i>[Signature]</i>	AP	4-55,437	24.02.92	Japan			X	

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner <i>[Signature]</i>	Date Considered 5/02
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C9	Serial No. 09/705,575
Applicant: Ernest Lawton et al.	
Filing Date 11/03/00	Group Art Unit 4016/7790

U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA	5,370,911	12/06/94	Throne et al.	427	185	
AB	5,412,003	05/02/95	Akiyama et al.	523	513	
AC	5,431,995	07/11/95	Narita et al.	428	285	
AD	5,435,671	07/25/95	Weinreich	408	1	
AE	5,449,480	09/12/95	Kuriya et al.	264	112	
AF	5,507,603	04/16/96	Nakano et al.	408	1	
AG	5,507,962	04/16/96	Jahanmir et al.	252	49.3	
AH	5,508,096	04/16/96	Van Skyhawk	428	251	
AI	5,520,999	05/28/96	Van Skyhawk et al.	428	251	
AJ	5,593,767	01/14/97	Noda et al.	428	251	
AK	5,677,045	10/14/97	Nagai	428	260	

FOREIGN PATENT DOCUMENTS

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AL	4-2857	07.01.92	Japan			x	
AM	4,255,288	10.09.92	Japan (Abstract)				
AN	4,125,140	24.04.92	Japan (Abstract)				
AO	4,366,628	18.12.92	Japan (Abstract)				
AP	4-307787	07.01.97	Japan			x	

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner <i>JAM Gray</i>	Date Considered <i>5/02</i>
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Atty. Docket No. 1596C9	Serial No. 09/702,575
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Applicant: Ernest Lawton et al.
Filing Date 11/03/00	Group Art. Unit 2016/1774

U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA		5,690,715	11/25/97	Schiwek	65	448	
AB		5,690,837	11/25/97	Nasko et al.	216	17	
AC		5,719,090	02/17/98	Appelt et al.	442	19	
AD		5,733,823	03/31/98	Sugioka et al.	442	110	
AE		5,759,924	06/02/98	Sahlin	442	60	
AF		5,674,351	10/07/97	Lovoi	156	629	
AG		5,800,874	09/01/98	Appelt et al.	427	412	
AH		5,858,461	01/12/99	Appelt et al.	427	217	
AI		5,869,173	02/09/99	Zheng et al.	428	313.3	
AJ		5,871,819	02/16/99	Appelt et al.	427	381	
AK		5,877,240	03/02/99	Piret et al.	523	415	

FOREIGN PATENT DOCUMENTS

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AL		3-152,808	25.06.91	Japan			X	
AM		4,367,763	21.12.92	Japan (Abstract)				
AN		3-87232	30.03.93	Japan			x	
AO		5-110,218	30.04.93	Japan			x	
AP		5,261,870	12.10.93	Japan (Abstract)				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner <i>J. M. Day</i>	Date Considered <i>5/02</i>
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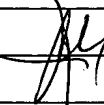
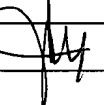
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Atty. Docket No. 1596C9	Serial No. 09/705,575
Applicant: Ernest Lawton et al.	
Filing Date 11/03/00	Group Art. Unit 0016/77700

U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,888,036	03/30/99	Arai et al.	408	230	
	AB	5,888,627	03/30/99	Nakatani	428	901	
	AC	5,907,106	05/25/99	Segar	73	62.338	
	AD	5,935,452	08/10/99	Inada et al.	216	20	
	AE	5,940,787	08/17/99	Gelston	702	134	
	AF	5,984,523	11/16/99	Houser et al.	374	31	
	AG	5,998,237	12/07/99	Conrod et al.	438	106	
	AH	6,000,886	12/14/99	Washio et al.	408	1	
	AI	6,060,150	05/09/00	Nakatani et al.	428	209	
		AJ	6,124,220	09/26/00	Nakata et al.	442	278
AK							

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
AL	5-174623	13.07.93	Japan				X	
AM	7,022,718	24.01.95	Japan				X	
AN	7,069,683	14.03.95	Japan (Abstract)					
AO	7,176,843	14.07.95	Japan (Abstract)					
AP	7-279055	24.10.95	Japan				X	

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Examiner <i>M. S. Day</i>	Date Considered <i>5/02</i>
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SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)



Atty. Docket No. 1596C9		Serial No. 99/705575
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)		Applicant: Ernest Lawton et al.
Filing Date 11/03/00		Group Art. Unit 1016-1700

U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
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FOREIGN PATENT DOCUMENTS

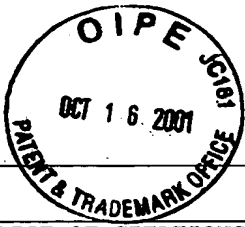
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AL	8-118542 A	5/14/96	Japan (Abstract)				
AM	9-3770	07.01.97	Japan			X	
AN	9-003217 A	07.01.97	Japan (Abstract)				
AO	11-286073	19.10.99	Japan			X	
AP	10-146916	02.06.98	Japan (Abstract)				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. 1596C9	Serial No. 09/705,571
	Applicant: Ernest Lawton et al.	
	Filing Date 11/03/00	Group Art Unit #016 17/779

U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL	9-209233	12.08.97	Japan			X	
	AM	9-270584	14.10.97	Japan			X	
	AN	9-308809	02.12.97	Japan			X	
	AO	10,338,758	22.12.98	Japan			X	
	AP	11,269,752	05.10.99	Japan (Abstract)				

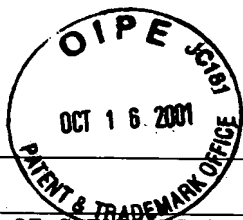
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Atty. Docket No. 1596C9	Serial No. 09/705,575
Applicant: Ernest Lawton et al.	
Filing Date 11/03/00	Group Art Unit 1616-1778

U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA						
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
JH	AL	99/44955	10.09.99	PCT	C03C	25/02		
	AM	99/44956	10.09.99	PCT	C03C	25/02		
	AN	99/44958	10.09.99	PCT	C03C	25/02		
	AO	99/44959	10.09.99	PCT	C03C	25/02		
JH	AP	00/21899	20.04.00	PCT	C03C	25/02		

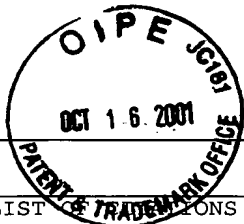
OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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LIST OF TRADEMARKS BY APPLICANT (Use several sheets if necessary)	Atty. Docket No. 1596C9	Serial No. 09/40,378
	Applicant: Ernest Lawton et al.	
	Filing Date 11/03/00	Group Art. No. 4016

U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA						
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation Yes	Translation No
AL	00/21900	20.04.00	PCT	C03C	25/10		
AM	97/14280	17.04.97	PCT (Abstract)				
AN	90/01860	22.02.90	PCT	H05K	1/03		
AO	96/39364	12.12.96	PCT	C03C	25/02		
AP	8-309928	26.11.96	JAPAN (Abstract)				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	DATABASE COMPENDEX <u>Engineering Information, Inc.</u> , Bruce E. Novich: "Glass Yarn: Sized For Better PCB Fabrication and Properties" (abstract) Accession No. EIX99284673861.
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Examiner <i>J. M. Day</i>	Date Considered <i>5/02</i>
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Atty. Docket No. 1596C9	Serial No. 09/209575
Applicant: Ernest Lawton et al.	
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U.S. PATENT DOCUMENTS

Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
AA						
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FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Subclass	Translation	
						Yes	No
AL	9-118759	06.05.97	JAPAN (Abstract)				
AM	5-1070457	18.06.76	JAPAN (Abstract)				
AN	5-7045054	13.03.82	JAPAN (Abstract)				
AO	5-9064355	12.04.84	JAPAN (Abstract)				
AP	5-261855	12.10.93	JAPAN (Abstract)				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	Atty. Docket No. 1596C9	Serial No. 097705,575
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Applicant: Ernest Lawton et al.	
	Filing Date 11/03/00	Group Art Unit 1016-1724

U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA						
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FOREIGN PATENT DOCUMENTS

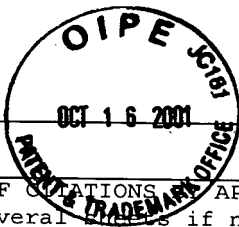
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	AM	6-112611	22.04.94	JAPAN (Abstract)				
	AN	6-302926	28.10.94	JAPAN (Abstract)				
	AO	6-305078	01.00.94	JAPAN (Abstract)				
	AP	4-230625	17.03.94	GERMANY (Abstract)				

OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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OCT 22 2001
Serial No. 209/705,315
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#016 1774

Atty. Docket No. 1596C9	Serial No. 209/705,315
LIST OF CITATIONS, APPLICANT (Use several sheets if necessary)	
Applicant: Ernest Lawton et al	
Filing Date 11/03/00	Group Art. Unit #016 1774

U.S. PATENT DOCUMENTS

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	AA						
	AB						
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	AL	2-9609017	29.08.96	GERMANY (Abstract)				
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OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

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